

ABSTRACT OF THE DISCLOSURE

An electric power tool incorporating a single fan that provides efficient cooling of the motor and transmission while reducing the cost and size of the power tool. The power tool includes a speed reduction transmission provided within a housing between the motor and a chuck which is located at the front end of the power tool. The rotation of the fan cools the motor and the transmission by drawing in external air from intake ports formed in the housing, and collectively exhausts the warmed cooling air through exhaust ports formed in the housing. The power tool includes a fan, located between the motor and the transmission, that is constructed to draw in two separate streams of cooling air from air intake ports located adjacent to the motor and the transmission, and to exhaust used cooling air through exhaust ports located adjacent to the fan.